

DISHWASHING MACHINES

**015/24L - L24-ek-plus
L25-ek - L305-CV**



INSTRUCTIONS MANUAL



I

I

DECLARATION OF CONFORMITY

The following :

LAMBER snc di Affaba F. e C. – Via Italia 6 – 26855 Lodi Vecchio (LO) ITALY

Declare under our responsibility that:

Apparatus:

DISHWASHER WITH PULL THROUGH RACK

Trademark: **LAMBER**

Manufacturer : **LAMBER**

Type / Model **015/24L / L24-ek / L25-ek / L305-CV** matr.....

for which this declaration refers to the conformity of the following standards:

- *Safety of household and electrical appliances - General requirements EN60335-1(2012)*
- *Safety of household and electrical appliances - Part 2^ Particular requirements for commercial electric dishwashing machines EN60335-2-58 (2005) + A1 (2008) + A11 (2010).*
- *Household and similar electrical appliances – Electromagnetic fields – Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure EN 62233 (2008)*
- *Limits and methods of measurement of radio disturbance characteristics of electrical motor-operated and thermal appliances for households and similar purposes, electric tools and similar electric apparatus - EN 55014-1 (2006) + A1 (2009) + A2 (2011)*
- *Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) - EN 61000-3-2 (2006) + A1 (2009) + A2 (2009) or >16 A and ≤ 75 A EN 61000-3-12 (2011)*
- *Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A. EN 61000-3-3 (2013) o >16 A e ≤ 75 A EN 61000-3-11 (2000)*
- *Immunity requirements for household appliances, tools and similar apparatus. Product family standard EN 55014-2 (1997) + A1 (2001) + A2 (2008)*
- *Safety of machinery Basic concepts, general principles for design - Basic terminology, methodology-ISO 12100-1 (2009).*
- *Safety of machinery - Basic concepts, general principles for design - Technical principles-ISO 12100-2 (2009).*

on the basis of what is foreseen by the Directives:

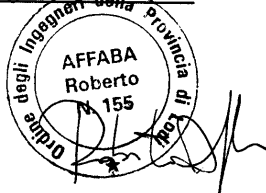
2004/108/CE, 2006/42/CE.
2004/108/EC, 2006/42/EC.

We decline any responsibility for injuries or damage derived from machine misuse, abuse by others or improper machine maintenance or repairs.

(date) li 07/01/2015

The administrator

Ing. Affaba Roberto



technical file case manager : Ing Roberto Affaba
address : via italia 6 – 26855 – Lodi Vecchio (LO) Italy

WASTE OF ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE (WEEE,RAEE in Italy) 2002/96/EC AND SUBSEQUENT 2003/108/EC

The marking shown below indicates that the product cannot be disposed of as part of normal household waste. Electrical and Electronic Equipment (EEE) can contain materials harmful to health and the environment, and therefore is subject to separate waste collection: it must be disposed of at appropriate waste collection points or returned to the distributor against purchase of new equipment of similar type or having the same functions.

The directive mentioned above, to which make reference for further details, provides for punitive actions in case of illegal disposal of such waste.



Lamber guarantees a percentage of recovery at least of **90%** in medium weight for each equipment. The **80%** - always as regards the medium weight- of recovered material is recycled or reused.

LAMBER, manufacturer of this equipment, is enrolled in the Italian WEEE Register – the Register of Producers of Electrical and Electronic Equipment- from the 18th /02/2008 with the number **IT08020000000617**.

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GENERAL NORMS	ENGLISH
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Thank You for purchasing our Dishwashing Machine.

Perfect washing-up results as far as hygiene concerns and a correct operation of the dishwashing machine can be assured only in case the instructions reported in the present manual are carefully followed.

We hope the information reported in the present manual will be helpful to You.

They are based on data and on our best updated knowledge.

Carefully read the Instructions reported in the manual, recommendations and suggestions included.

Carefully read the terms of sale too, even the ones limiting warranty.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance (EN 60335-2-102/7.12).

INTRODUCTION AND SAFETY NOTES

ENGLISH

INTRODUCTION

- **The machines are Industrial Pass-through-dish-washing machines .**
- Noise level of the machine: Q15/24L-L24-ek : Lpa=63,5 dB(A) / L25-ek : Lpa=59,5 dB(A) / L305-CV : Lpa=67 dB(A) (Norms EN ISO 4871 and EN ISO 11204)

PRELIMINARY OBSERVATION

Carefully read the instructions reported in the present user manual, as it gives important indications about safety of installation, operation and maintenance:

- **carefully keep the present manual for further consultations;**
- the illustrations and drawings showing the machine are intended for general reference only and are not necessarily accurate in every instance;
- the dimensions and characteristics of the machine, given in this Manual, are not to be considered binding and may be changed without prior notice;
- once removed the packing material, check that all the equipment is present. If there is any doubt, do not use it and contact qualified personnel. The packing elements (plastic bags, nails, etc.) should be kept away from children, because they are dangerous.

GENERAL SAFETY REGULATIONS

THIS SAFETY CODE HAS BEEN COMPILED IN YOUR INTEREST. Strict adherence to these rules will reduce the risks of injury both to yourself and to others;

Personnel working with this machine must adhere strictly to all statutory safety regulations as well as the specific rules listed below. Failure to do so may result in personal injury and damage to the machine;

- DO NOT attempt to move, install, set up or operate this machine until you have read and fully understood this Manual. If doubt persists, ask your supervisor;
- never leave tools, parts or other loose material on or in the machine;
- Before switching the equipment on, make sure that the model plate data conform to those of the electrical and water distribution network;
- remember that even with the mains indicator in the "OFF" position, the incoming cables are still live;
- BEFORE starting the machine or the cycle, after any maintenance or repair work, make sure all protective are correctly installed;
- be vigilant at all times, remember that your safety and that of your fellow workers depends on you;
- when moving or lifting the machine, care must be taken to comply with all the relevant regulations governing such operations;
- installation should be carried out by qualified personnel according to the manufacturer's instructions.
- this equipment should be destined to the use which it has been conceived for. Any other application should be considered improper and consequently dangerous;
- the equipment should only be used by personnel trained for its use;

SPECIAL SAFETY REGULATIONS

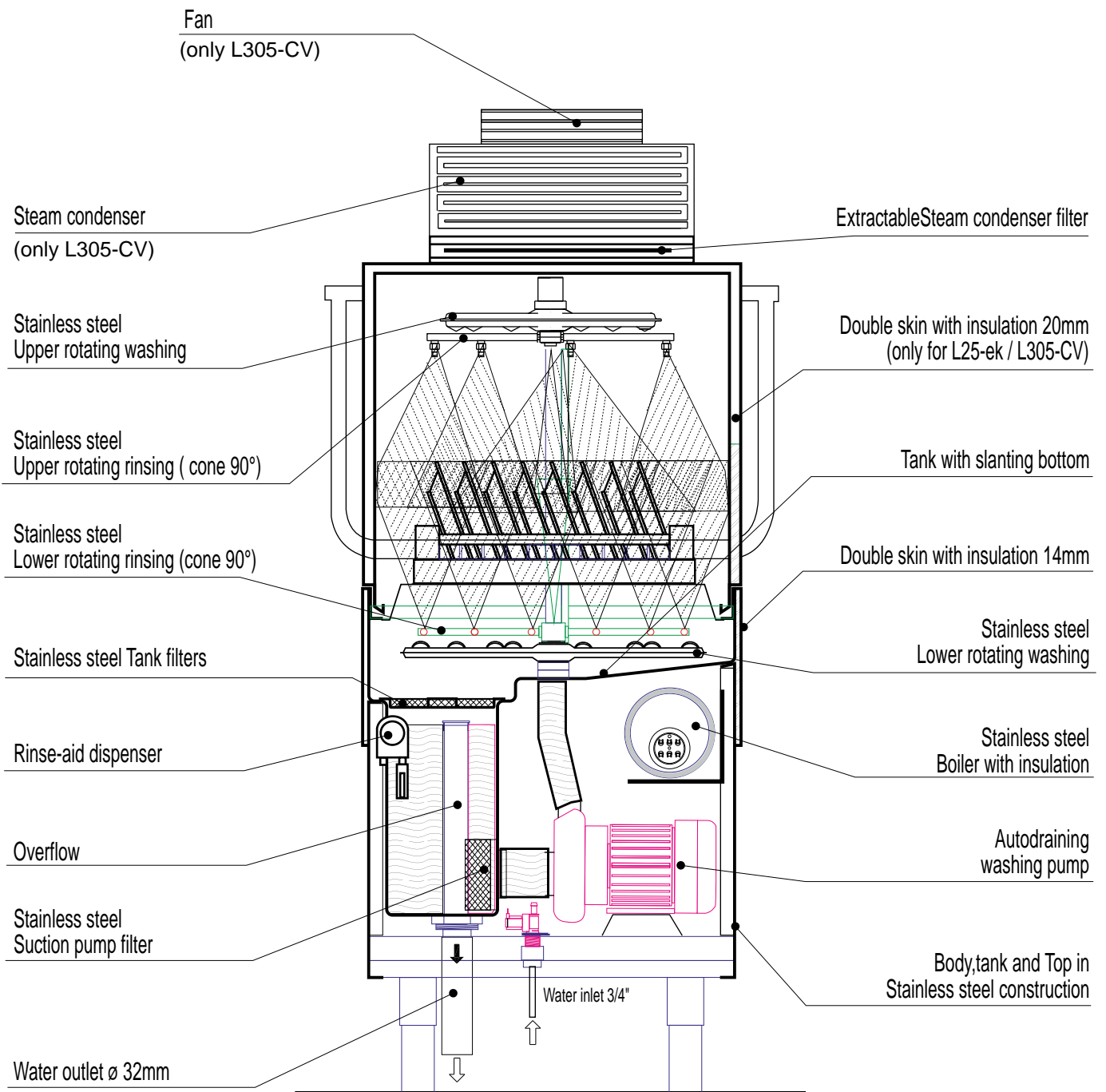
- adjustment and repairs must be carried out only by qualified personnel. Repair carried out by unskilled personnel may be dangerous;
- perfect washing-up results as regards hygiene and a correct operation of the washing machine can be assured only in case the instructions reported in the present handbook are carefully followed;
- the machine must be used only by authorized personnel who must comply with sanitary measures;
- do not leave the machine in an environment with temperatures lower than 0°C;
- the machine protection degree is IP21, therefore it should not be washed with direct high pressure jets of water;
- **If the power cable is defective, it must be replaced by your manufacturer or by a technical assistance service or by a qualified technician in order to avoid risks.**

RESIDUAL RISKS

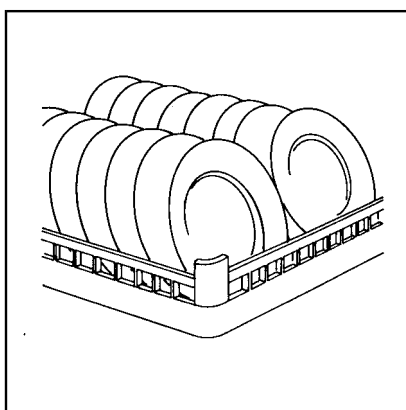
Although the appliance is equipped with the above-mentioned safety devices, danger of burns to upper limbs persists. Avoid dipping your naked hands into the soapy hot water present in the tanks. This can cause burns and skin irritations. In this case, immediately rinse them with plenty of water.

When the machine is working, do not open the inspection doors too quickly.

Learn to use the appliance



INSTRUCTIONS FOR THE USER



1

CONTROL PANEL

Ⓐ

Main switch

Ⓑ

Cycle pushbutton

Ⓒ

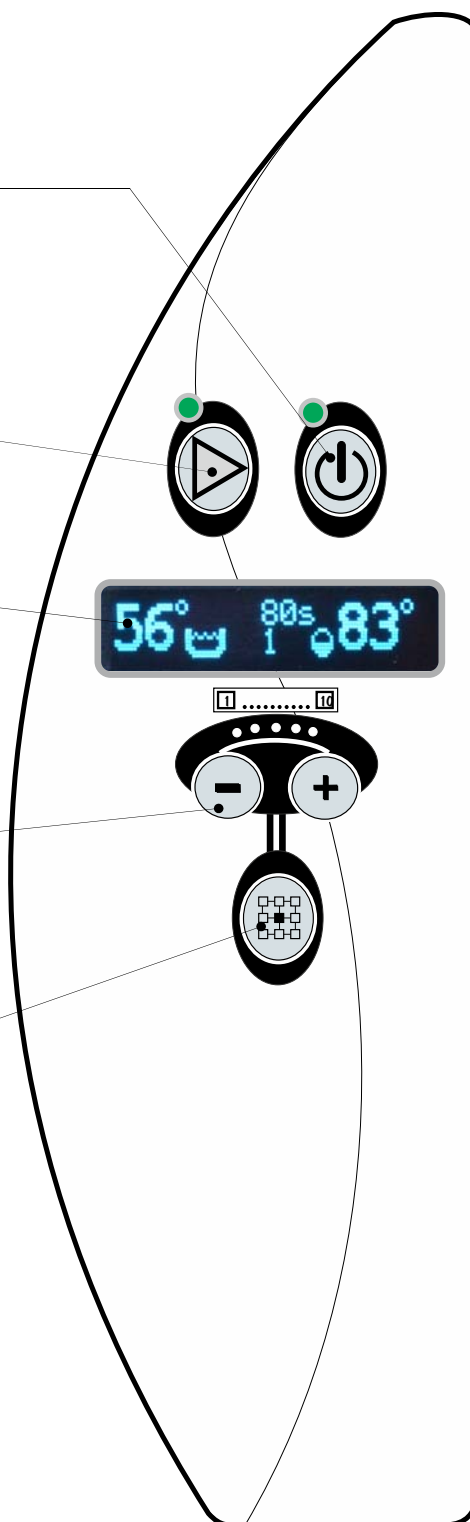
Interactive display

Ⓓ

Wash time selection
pushbutton

Ⓔ

Programming
pushbutton



First Section - FOR THE USER

WORKING AND USE

The dishwashing machine can wash up to 960/320 dishes per hour.

The machine protection degree is IP21, therefore it should not be washed with direct high pressure jet water;

The correct placing of the objects is an essential condition for a good washing-up result;

We suggest to descale dishes, from time to time, in order to remove calcareous and/or starchy sediments by soaking it in suitable solutions suggested by your cleansing agent supplier.

If you need to buy new dishes remember the following:

Dishes and cups: preference must be given to china or non-porous pottery articles, with smooth surface.

Glasses: choose a glass suitable to be washed in dish-washing machines. Surfaces must be smooth and bottoms as flat as possible.

INSTRUCTIONS BEFORE WASHING

BEFORE STARTING THE WORKING OPERATION MAKE SURE THAT:

- the cock is open;
- the filters and the overflow are in their housings;
- the wash arm and the rinse arm are free to pivot;
- rinse aid and washing powder dispenser containers are loaded.

THEN PROCEED:

1 - Open the door and put into the tank, possibly over the pump-filter, about **110 gr.** of detergent in powder. Every 10 cycles add about **75 gr.** of detergent.

If the machine is provided with an automatic dosing device, make sure that the detergent is in its container.



CAUTION: Observe the safety notes and dosage data for the use of chemicals. During the use of the chemical substance wear protective clothing, gloves and protective glasses. Do not mix different cleaning products.

TURN ON THE MACHINE and operating state of emergency.

2 - Turn on the power using the switch on the wall and press the switch "A" placed on the control panel (DIAGRAM.1).

You will see the serial number of the machine followed by the logo Lamber.

Close the hood of the dishwasher.



Press at this point the key switch "A" on the control panel (draw 1)



At this point the LED will turn green and the interactive display will show "Fill phase 1" that will signal the start of the filling phase of the tank.

**FILLING
PHASE 1**

The filling phase is implemented in two stages.

In STEP 1 begins the load of the tank with water from the water mains; in STEP 2 continues the filling but also begins a warm-water washing.

Note: If the machine is equipped with water softener, during the FILLING PHASE 1 it will be made to one or more cycles of Regeneration and a subsequent Resins' Washing.

Attention: during tank filling don't open the hood of the dishwasher!!

Attention!

If during the loading phase, appears the message "BREAK TANK", this means that you're filling up with water the rear Break Tank.

If after 5 minutes the data is still flashing in alternation with the inscription FILLING PHASE 1, you will see the word ALARM BREAK TANK and this will mean that there may be a problem in the tank loading. (Call the Technical Assistance Service!)

At the end of the filling phase of the tank on the interactive display will appear the following information (from left to right):

- Temperature of washing;
- Time of washing;
- Number of cycle;
- Temperature of rinsing..

The data of the temperature Tank and Boiler, flashes slowly and increases in value, indicating the current warming of the water in the boiler.

When temperature has reached, the data stops flashing.



Attention !

The machine is programmed at the factory so you can start the washing program after filling the tank up to the required level.

However, before you start the cycle, make sure that the machine has reached the ideal temperature range (55°C for washing and 85°C for rinsing):

In any case, the rinse will start only in temperature regime reached. The duration of the washing time chosen will then be continued until it reaches the set temperature ((**Thermocontrol**)).

WASHING

- 3 -** Open the hood of the machine and insert the basket. .

N.b. The display informs you when the top of the dishwashers is open.

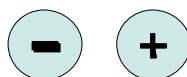
F1-DOOR OPEN

- 4 -** Place the dishes in the racks, making sure to first remove all the solid waste and fats.

Make a preventive soak to cutlery and possibly even to dishes if they are washed after a long time use. Do not overload the baskets, dishes should not overlap, the water must have a way of being able to invest directly in their entirety.

For a correct positioning of dishes see the specific paragraph on page 16...

- 5 -** Select the time of the washing cycle by pressing the time selection “D”



According to the following criteria:

- cycle 1 :short 1 minute ;
- cycle 2 : intermediate 2 minutes ;
- cycle 3 : long 3 minutes ;
- cycle 4 : infinite 15 minutes ;

The duration of the cycle must be chosen according to the type of dirt to be removed from the dishes.

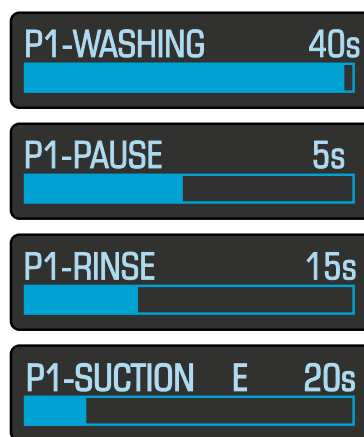
See paragraph specifically for custom programming, in the section dedicated to the installer.

- 6 -** Close the hood of the dishwasher.

Start at this point the washing cycle of the chosen duration comprising in addition to washing a rest period of 5 seconds, and a rinsing phase lasting 15 seconds with clear water at 85°÷90°C.

(only for L305-CV)

At the end of the washing phase there is the automatically activating of the fan for suction of the vapors. This aspiration continues for a programmable time from 0" a 60" beyond the end of the rinse seconds (default 20") . A beep indicates the end of the cycle.



(only for L305-CV)

To temporarily pause the cycle, simply open the hood of the dishwasher. Closing it, the cycle will start again at exactly the point where it was interrupted.

It is possible at any time to stop the wash cycle by simply pressing the button again cycle “B”



When you restart the cycle, this will restart from the beginning.

(be careful!! During the cycle, at the opening of the hood is pressed also the fan for fume extraction for a maximum time of 20 seconds – only to L305-CV)

7 - At the end of the wash cycle, the message "END WASH" will appear followed by a short beep.

The LED turns off and the B button appears the temperature data and the data number and duration of the cycle.




Open the hood of your dishwasher.

Remove the basket and tilting it, shake it lightly to bring down the remaining drops. Allow to dry the dishes by evaporation, then remove them from the basket, taking care not to touch the inside edge of the same. Then put them on hygienic shelves.

To continue the wash load another basket and close the hood. The cycle will restart automatically.

If you want to change the wash cycle, before closing the hood, you will need to select the new cycle by pressing the time selection "D".

Temperature data display: to view temperature data during the wash cycle, it is necessary to

press the push-button . You will see the temperature data for 3".

If you want to fix the values of temperature for the whole duration of the selected cycle, it is

necessary to press the button  for 3".

To re-display the data of the wash cycle, it is

necessary to press the switch .

Attention! At the next cycle the temperature data will not be displayed automatically, but the data will appear in the wash cycle.

ACHIEVEMENTS

Any deficiency in the washing process is obvious when dirty residuals are visible. Any halos might be caused by an insufficient rinsing: in this case, check that the rinsing jets are clean and that there is a sufficient pressure in the water distribution network.

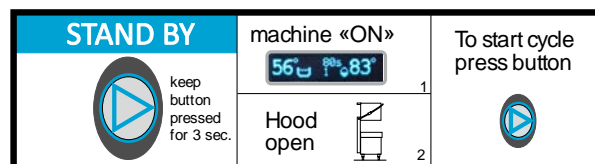
In case you find residuals, check that:

- the washing jets are clean
- there is some detergent
- the pump suction filter is clean
- objects in the rack are placed in a correct position.

STAND BY-ECONOMY

(only available on a machine with automatic start!):

The **stand-by** function allows you to keep the machine closed at rest, keeping active heating functions.



Stand-by : with open hood and the machine is in "ON", press the cycle "B" push-button for 3 seconds, then closing the hood, the machine will not operate the wash cycle while maintaining active heating functions.

The display shows the word "ECONOMY". The temperature of the heater stabilizes at 60° reducing the consumption of energy.

Attention!: make sure, after you start the stand-by function to close the hood to keep the wash tank hot and not disperse heat!

To restart the cycle, put the top down and press the push-button "B".

Automatic Stand-by : after 10 minutes of non-use of the machine, **with the hood open**, it automatically activates the STAND BY-ECONOMY, (the display shows the word ECONOMY P*)

To restart the cycle, put the top down and press the push-button "B".

If the machine is not used for 1 hour, the same turns off completely (the machine "OFF", even turning off the heating elements).

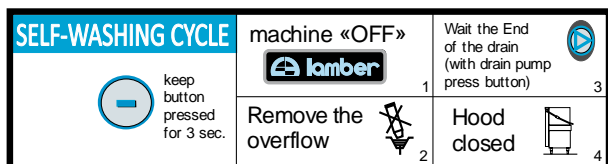
Turn on the machine by pressing the push-button "A".

To restart the cycle, put the top down and press the push-button "B".

SELF-WASHING

The function of **self-washing** allows you to make a cleansing cycle at the inside of the washing tank.

The inside of the washing tank is cleaned with water coming from water network.






- **Self-washing cycle:** with the machine "ON" do the following operations::

- 1 Put the machine OFF by pressing the push-button "A" (led off)
- 2 Remove the overflow of the tank and wait until same is empty;


For machines equipped with drain pump, see the instructions at the specific paragraph.

For machines without drain pump:
Visually check that the tank is empty,

- 3 Close the hood of the dishwasher ;
- 4 Hold the "" button for 3 seconds.

ATTENTION: before your press the "" , button, make sure that the display shows the logo lamber "".

In case it is off, turn the machine on by pressing the switch "A" and then pressing it again to to turn off again the push button "A"

The logo Lamber will reappear and will then be able to start the function SELF-WASHING holding down the select push button "" for 3 seconds

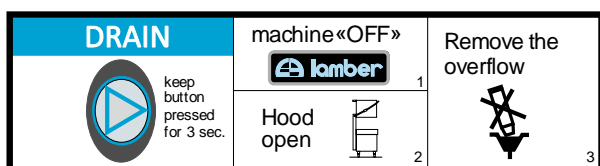
On the display you will see the words "SELF-WASHING" with the time bar that indicates the increase for the duration of the cycle of 5 or 10 minutes depending on the time of rinse set by default

If you want **to stop** the cycle SELF-WASHING, it is sufficient to press the switch "A"

DRAIN PUMP INSTRUCTIONS (optional)

(only for machines with drain pump)

The pump discharge function allows you to automatically download the wash tank at the end of the workday.



The operation of the discharge pump **is automatic only during the cleaning cycle** to drain the excess water that enters during the rinsing phase

At the end of the working day, to discharge the tank completely, you must perform the following steps:

- 1 Put the machine OFF by pressing the switch "A" (the display shows LAMBER logo);
- 2 Open the hood of the dishwasher;
- 3 Remove the OVERFLOW from the tank
- 4- Then press the "**B**" cycle-button for **3 seconds**

Alternately flash the words "DRAIN" and "REMOVE OVERFLOW"

(N.B. The word "REMOVE OVERFLOW" will disappear only to the closing of the hood)

The discharge stops automatically after about 5 minutes.

The discharge can be interrupted at any time by pressing the cycle-button "**B**"

After drainig, the machine will turn off completely (display OFF).

Replace the overflow into place and close the hood.

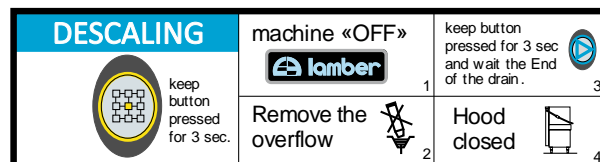
DESCALING (optional)

(only for machine with drain pump and dispenser)

The descaling function is a cycle that leads descaling liquid in the pipelines of rinsing, in the washing tank and boiler allowing the removal of limescale deposits from the water products. The cycle lasts about 35 minutes.

For an average water limestone is recommended cycle activation at least once a week.

The frequency may vary depending on type of water.



To make the cycle do the following operations:

- 1 Punt the machine OFF by pressing the switch "A" (led off)
- 2 Remove the OVERFLOW from the tank;

- 3 Press the **“B” button for 3 seconds** and wait for the complete emptying of the tank;
- 4 Close the hood of the dishwasher;
- 5 Then press the **“E” button for 3 seconds**

At the end of the descaling cycle (approx. 35 minutes) will appear on the LED the words “END OF THE DESCALING CYCLE”.

List of automatic MESSAGES

On the display may appear some messages to inform about the status of the cycle start of abnormalities. Below is the eXplanation of some MESSAGES that appear on the display automatically.

1-BREAK TANK :

This indicates that the tank of Break Tank is filling of water to reach the required level.

2-ALLARME BREAK TANK:

This indicates a fault in the operating system: lack of water mains, valve not functioning: Call Customer Service!

3-ECONOMY :

After 10 minutes of non-use of the machine with hood open, it appears the word ECONOMY. The temperature of the heater stabilizes at 60° reducing the consumption of energy.

4-OFF

If no button is pressed in 1 hour, the message “OFF” will appear and the machine turns off.

5-THERMOCONTROL :

This indicates that the washing cycle will be extended to reach the ideal temperature for rinsing

This message is accompanied by the value of the temperature. This gives flashes and increments until it reaches the programmed temperature, at which may start the rinsing phase.

6-REMOVE OVERFLOW :

This indicates that the overflow has to be removed to perform the selected operations (self-washing, descaling or discharge of the tank)

The data is highlighted even if in reality you have already removed the overflow, but will disappear automatically after 10 seconds after you close the hood of the dishwasher.

7-REGENERATION IN PROGRESS :

(only for machines with built-in water softener). It indicates that a cycle of regeneration of the resins varying from 30” to 90” seconds is in progress.

8- WASH OF THE RESINS :

(only for machines with built-in water softener). It indicates that a washing cycle of the resins of the duration of 10” seconds is in progress..

9-SALT :

(only for machines with built-in water softener) It indicates that there is a lack of salt into the container. Add big pads of salt into the container as per the specifications given to you by your provider.

10-SERVICE :

It indicates that you need to do maintenance work. The scheduled maintenance service allows you to control all the devices and efficiently maintain your dishwasher over the time. Normal functioning is still guaranteed. It is well worth however not to wait too long to make the intervention.

List ALARMS!

Alarm: A3-TEMP.SENSOR : this message indicates that the probe of the tank temperature thermostats or boiler is defective. Call the Technical Support Service!!

Alarm: A2-HIGH TEMP. : this message indicates that the temperature in the boiler is greater than 105°C. Call the Technical Support Service!

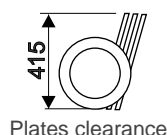
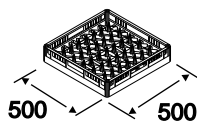
Alarm: BOILER PROBE FAILURE. : this message indicates that the probe of the boiler is not working properly. In this case the functioning of the resistance of the boiler and the Thermocontrol are disabled. Call the Technical Support Service!

Alarm: TANK PROBE FAILURE: this message indicates that the probe of the washing tank is not working properly. It is disabled in this case the functioning of the washing tank resistance. Call the Technical Support Service!

DISHES POSITIONING

Warning!

Only use the baskets supplied with the dishwasher!



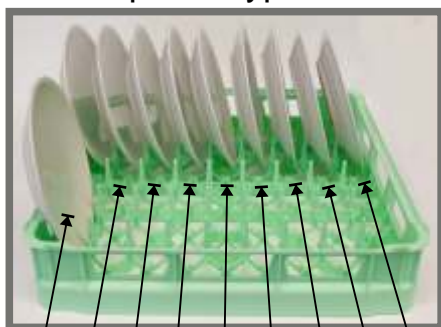
Insert the baskets inside the dishwasher with the plates in the direction shown in the picture.



To achieve optimal cleaning results, make sure that tableware is correctly stored inside the dishwasher.

Dishes must be placed in the plastic baskets, concave side up.

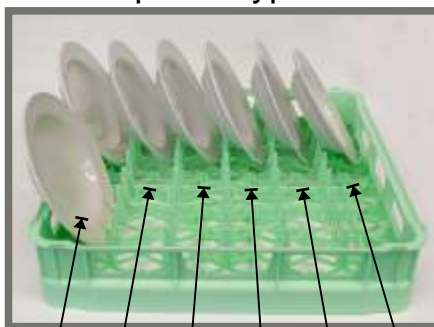
PP12-18 cod.CC00024 (2x)
dinner plates type "1"



1 2 3 4 5 6 7 8 9

Dinner plates type "1" should be positioned concave side up and on the side of the rack with 9 storage compartments - that is a maximum storage capacity of 18 flat plates, as shown in the above picture

dinner plates type "2"



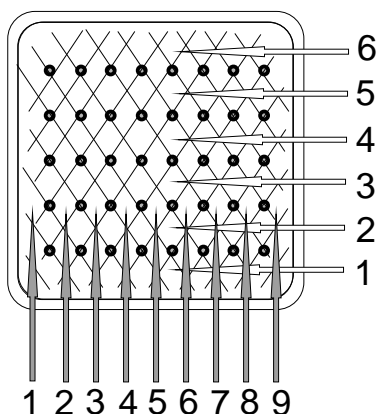
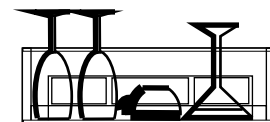
1 2 3 4 5 6

Dinner plates type "2" should be placed concave side up and on the side of the basket with 6 storage compartments that is a maximum storage capacity of 12 deep plates, as shown in the above picture

CB cod.CC00019 (1x)



Glasses, bowls and cups should be positioned face down into the proper compartment as shown below.



Put the cutlery into the small baskets, handles down. Avoid overlapping it (see picture above).

G cod.CC00045 (2x)



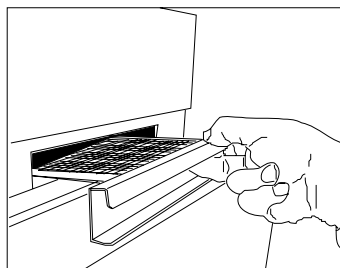
CLEANING AND PREVENTIVE MAINTENANCE

PRECAUTION AND CLEANING INSTRUCTIONS

- **IMPORTANT** : Before carrying out the cleaning and maintenance operations, disconnect the equipment from the mains power supply:
- Follow the directions on the maintenance in this guide;
- Wear protective clothing and gloves when challenged elements are impregnated with clearing solution;
- high temperatures can be reached inside the machine (90°C). After power supply has been removed, wait until the machine has reached room temperature, before working on it.
- never leave tools, parts or other loose material in or on the machine;
- **Chek that there are no rusting foreign bodies, because of the material "stainless steel" could begin to rust. Rust particles can come from non- stainless steel dishes or damaged wire baskets.**
- **Do not wash the machine and the area surrounding it with fire hydrants, steam jets of high-pressure cleaners;**
- **When clearing the floor be careful not to saturate the base of the machine, in order to avoid a prolonged stagnation of water;**
- **To clean the inside of the machine, use a brush or a soft cloth;**
- **To clean the machine do not use abrasive cleaners;**
- **BEFORE starting machine or cycle, after any maintenance or repair work, make sure all protectives are correctly installed;**

DAILY MAINTENANCE

- Turn off the machine by pressing the switch "A" and drain the water from the tank by removing the overflow;
- Wait until the water is drained and there is no debris on the bottom of the tank.
- Proceed to the specific operation of daily clearing as described on the next page
- **(only for L305-CV)** Clean the filter of the steam condenser that is placed in the upper part of the hood;



- If there is an extended downtime is advisable to prevent the formation of unpleasant odors and leave the hood raised.
- When the machine is to remain idle for a long time, drain all the water from the boiler (the drain plug is located on the lower side of the boiler) and from the electropump. Also leave the wash tank open.

NEVER WASH THE EXTERNAL PART OF THE MACHINE WITH A WATER JET

DAILY CLEANING OF THE INTERIOR OF THE DISHWASHER



Attention. Before carrying out cleaning the inside of the machine, make sure that there are no foreign objects that could damage the rusty steel inside the tank. The eventual rust particles could come from non-stainless steel dishes, from baskets or damaged water pipes not rust-proof.



Open the hood of the dishwasher



Unscrew the reel rinse lower



Remove the washing lower reel



Unscrew the reel rinse top.



Remove the reel clearing top



Remove the filter drawer



Remove the basket guide



Remove the filter tank



Remove the filter suction pump



Remove the overflow pipe

Remove from the tank by means of a brush or cloth if any, residual dirt.



Clean the pump inlet filter by means of a brush



Clean the filter tank top



Clean the filter drawer



Clean the washing reel.
Check for any debris inside.



Clean the reel rinse



Wipe with a cloth the tank and check for any debris on the bottom.



Insert the overflow



Insert the filter pump suction



Insert the filter tank in its place



Insert in its place the filter drawer



Replace the baskets guide



Replace the lower washing arm



Screw the lower rinse arm



Mount the upper washing arm



Keeping with a hand the washing arm in place, screw the rinse arm.



Check that the wash and rinse arms are free to rotate (upper and lower)



(only for L305-CV) Clean the filter of the steam condenser that is placed in the upper part of the hood;



Completely close the hood the the dishwasher. If there is an extended downtime, it is advisable to leave the hood open.

DETERGENT and RINSE-AID



Attention. During the use of chemicals is advisable to wear appropriate clothing, such as gloves and protectives glasses.

It's therefore important to consider some factors.

First of all, it is necessary to use only strongly anti-foaming Alkali and Chlorine Products specific for industrial dishwasher, manufactured by Companies recognized as seriousness. By way of illustration, we list a few: Ecolab-Soilax; Henkel; Lever; Diversey; Relativ.

Detergent

The detergent is needed to remove dirt and food from the dishes.

The detergent may be determined in various ways:

- Manually if powder
- Automatically from one external box via a dosing device embedded or external.

The mean concentration of powder detergents should be of 1,5÷2,5 g/liters

For dosing instructions refer to the initial notices before washing.

If automatic, always check the presence of liquid in the tanks and set the dosages by the installer.

The mean concentration of liquid detergents should be of 2÷4 g/liters.

In order to avoid corrosion and scalling, the placing of the detergent must be made above the water level in the area closest to the pump suction filter, so that it enters immediately in solution and does not deposit on the tank bottom.

The detergent dispenser is not standard on all the machines.

Then check the presence of it in the order data.

Periodically check the presence of product in external tanks!

Rinse-aid

To ensure proper rinsing and fast drying and prevent scale deposits on the dishes, you need to add to the water an additive such as a surfactant (Rinse-Aid)

The rinse-aid is dosed automatically and its dosage is set by the authorized service technician.

The average concentration of use is of 0.15 g/liter.

The supplier of detergent will be able to recommend the most suitable product.

The machine is equipped with rinse-aid dispenser.

Periodically check the presence of the products in the external tanks!

PROBLEMS - CAUSES - SOLUTIONS

PROBLEMS	CAUSES	SOLUTIONS
The machine doesn't catch	Main switch is switched off;	Turn ON the main switch;
	Power plug is not inserted	Insert the power plug
The water doesn't go in	Water cock closed;	Open water cock;
	The Overflow is not in place;	Reassemble the Overflow in place
	The water inlet hose is blocked	Change the water inlet hose
Insufficient Washing	Wrong detergent or dosage	Use anti-foam detergent in the right dosage and never with cold water;
	Detergent is inappropriate	Use a non-foaming detergent and never in cold water;
	Low temperature in the tank;	Wait until the water gets hot and wait for the achievement of the ideal temperature indicator light stop blinking
	Dirty wash filter;	Clean filter;
	The washing arms are not free to rotate	Check the presence of obstacles or the correct positioning of the dishes
Insufficient Rinsing	Rinsing nozzles blocked;	Unscrew and clean nozzles under running water;
	Hydraulic pressure lower than 1 bar - 100 kPa;	Wait until the pressure is on or buy a booster pump;
The dishwasher will not drain	Drain hose obstructed	Check and remove any obstruction
	The filter of the drain pump (if included) is obstructed	Clean the filter of pump suction
The dishes are not dry	Rinse-aid has not been used or it has been used only in small quantity	Set the dosage according to the manufacture directions
		Check that the dosing tubes are not blocked
		Clean the detergent suction filters placed in the tanks
		Also check the entry of the water from the mains and clean the filter may be clogged
On the dishes it forms a layer	If there is a layer of limestone, the water is too hard	Check for the presence of operation of water treatment system external or embedded
	In the case of a film of starch, high temperatures during the pre-washing	Not perform manual pre-washing with temperatures above 30°C
The display shows A3-TEMP.SENSOR	Boiler temperature detector or tank are faulty	Call the Technical Service!
The display shows A2-HIGH TEMP.	Boiler temperature > 105°C	Call the Technical Service!

CAUTION! FOR ANY OTHER TROUBLE, CALL SERVICE

DESCALING

When hard water is used you can find inside the machine and also on dishes calcareous sediments which must be removed both for hygienic and operating reasons by a descaling operation.

Operating process and frequency of this intervention are suggested by your cleansing agent supplier who has suitable products, generally containing phosphoric acid.

In order to avoid damage to the machine do not increase the quantities and once operations end rinse abundantly.

SANIFICATION

At least each 30 days it would be useful to do this operation which guarantees the complete hygienic conditions of the machine. We suggest to contact your cleansing agent supplier who will give you quantity and name of the most suitable product you can use and that is generally an active chloride powder (100÷200 ppm).

In order to avoid damage to the machine do not increase the quantities and once operations end rinse abundantly.



ATTENTION: Observe the safety notes and dosage data for the use of chemicals. During the use of the chemical substance wear protective clothing, gloves and glasses. Do not mix different cleaning products.

USEFUL HINTS FOR STAINLESS STEEL MAINTENANCE

Stainless steel is so called because it is not affected by oxidation; this gives it resistance to a thin molecular layer of oxide on the surface which protects against further oxidation. There are, however, substances which can modify or destroy this layer, giving rise to corrosion: besides preventing the protective film of oxide from reforming, these substances corrode the stainless steel itself and can cause irreparable damage. It is therefore necessary to prevent this by choosing correct cleaning products and by complying with the following simple recommendations: **never forget that when using these appliances, the first and fundamental rule is to guarantee that the cleaning products are both non-toxic and hygienic.**

Before using any detergent to clean either the stainless steel or the immediate and surrounding floor area, always ask your supplier for the most suitable product which does not cause corrosion on the steel itself; the onset of rust is most commonly caused by the use of unsuitable cleaning materials (strongly acid chlorate based detergents) or on inadequate maintenance.

Our appliances are made of stainless steel AISI 304 (18-10 type) for exterior panelling, upper tops, tanks etc. Comply with the following instructions when cleaning and servicing parts in stainless steel.

Ordinary daily maintenance

Carefully and frequently clean the surfaces using a damp cloth; use soap and water or normal detergents, **so long as these do not contain abrasives or chlorine based substances** such as sodium hypochlorite (bleach), hydrochloric acid or other such solutions. These products quickly and irreparably corrode stainless steel. When cleaning floors underneath or near the appliances, never use the above mentioned products as vapours or splashes could subject the steel to similar destructive effects.

Only ever rub in the direction of the satining, then thoroughly rinse with clean water and carefully dry.

Rust : water supply pipes, inevitably convey particles of rust dissolved in the water especially in new installation plants or when taps are opened after a period of inactivity. These iron deposits must not be allowed to remain on the stainless steel since they produce rust by contamination.

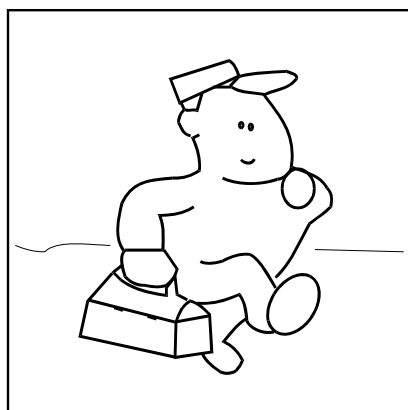
Use suitable products to remove any rust marks, from companies which produce detergents for industrial use. After application, thoroughly rinse with clean water, neutralizing the action of the product with an alkaline detergent normally used to clean such appliances or with another specific product.

DO NOT USE METAL MATS TO CLEAN THE STAINLESS STEEL

INSTRUCTIONS FOR THE INSTALLER

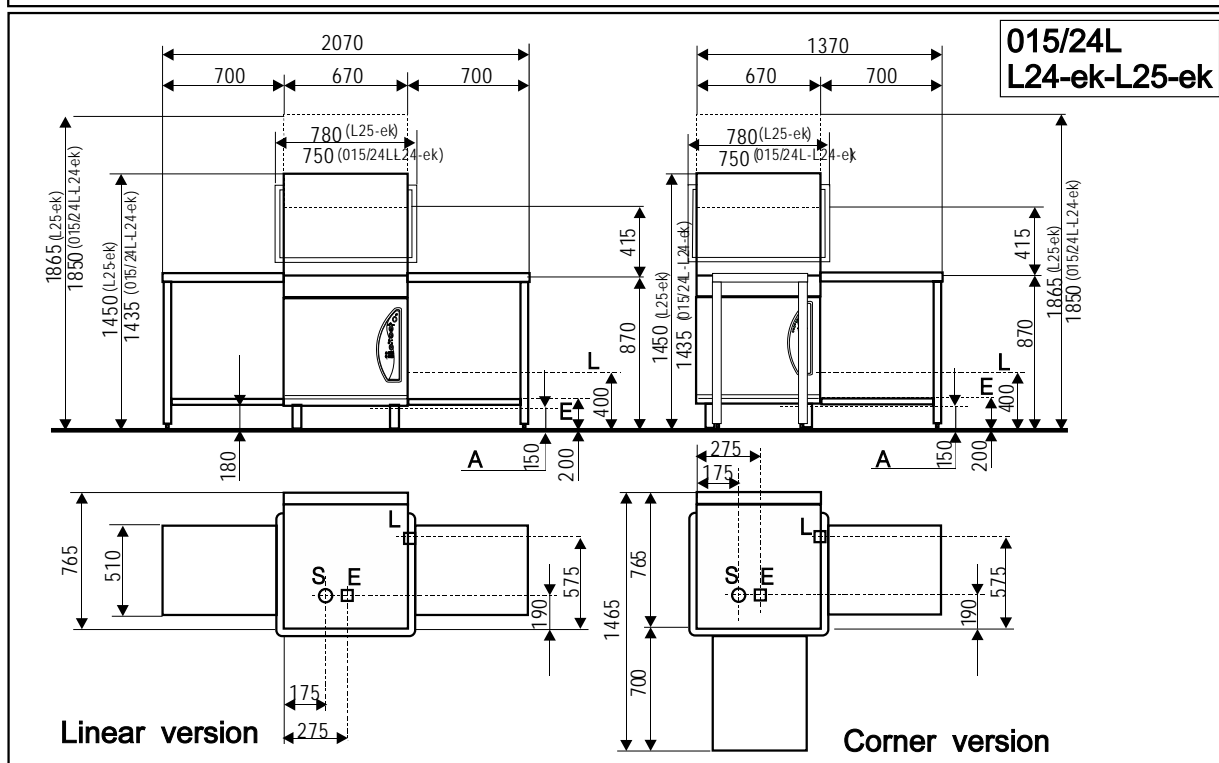
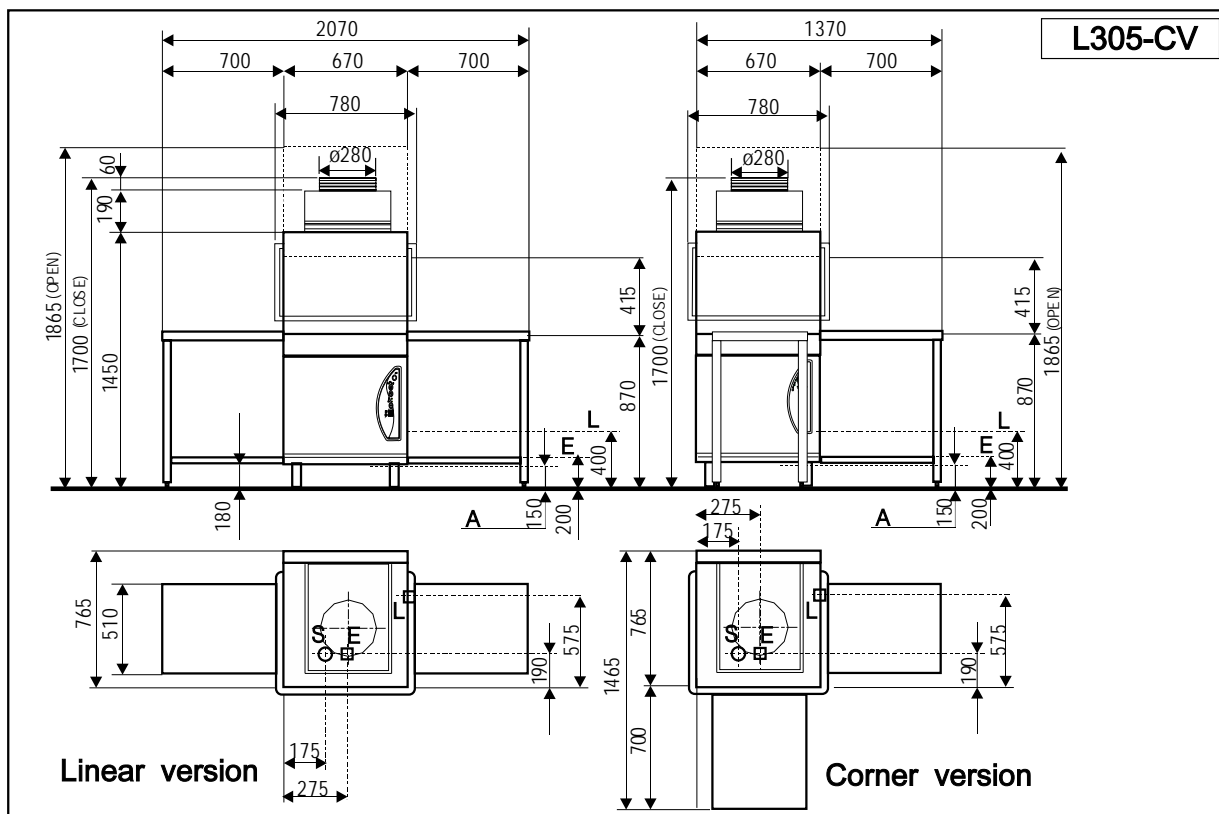
The following instructions are addressed to a qualified personnel, the only one authorised to carry out checks and repair, if any.

The Manufacturer declines any responsibility in the case of interventions made by a non qualified personnel.



2

INSTALLATION



A	Maximum height for drain to wall			L	Electric input	400 V3N~50Hz
E	Water inlet 3/4" G	015/24L L24-ek-L25-ek 50+55°C	L305-CV 15+18°C	S	Drain	32 mm - 1 1/4 G

Second Section - FOR THE INSTALLER

During the installation, carry out a good machine levelling, which is a prerequisite for a correct operation.

The Manufacturer cannot assume any responsibility for any damage to persons or property deriving from the non-observance of the above-specified norms.

For a correct installation see draw page 26 .

ELECTRICAL CONNECTION



WARNING:: Danger to life due to live components!

During all electric operation, disconnect the machine from the network and verify the absence of power.

The machine and its accessories must be connected in accordance with local regulations, by a Company specialized in electrical installations and authorized by competent authorities.

Before connecting the machine, make sure that the voltage outlet of the mains is the same as the voltage specified on the data label of the machine.

A main switch must be installed between the mains and the machine. This safety measure also requires that the minimum distance between the switch contacts is at least 3 mm and the disconnection on all poles according to **EN 60204 (VDE 113)**.

Fuses on the main switch must be **16 A** .

The mains must be wired to be able to handle the current drawn by the machine. The system must also be provided with a proper ground lead in accordance with the existings norms. The electric cable must be of the following type **H07RN-F**.

For the right choice of the cross section area refer to the following table:

Cross Section area	Total loading
mm ²	A
0,75	< 6
1	6 ÷ 10
1,5	10 ÷ 16
2,5	16 ÷ 25


The electrical safety of this equipment is only assured if it is connected as follows.

It is necessary to connect the equipment to an effective ground installation, as specified by the electrical safety rules in force.

Check that this basic requirement is complied with and, in case of doubt, ask for a careful check of the installation by a qualified personal.

In addition, the equipment shall be part of an equipotential system, the effectiveness of which should be checked according to the regulations in force.

The connection should be made at the screw marked by the respective label

placed on the equipment back side ().

THE MACHINE SHALL BE CONNECTED WITH AN EFFECTIVE GROUND CLAMP.

ATTENTION!

In case of THREE-PHASE FEEDING, please check that the motor direction of rotation is the same as the arrow on it.

The manufacturer declines any responsibility for any damages caused by lack of an effective ground installation.

WATER CONNECTIONS

Carefully comply with any national or regional regulations in force.

Water installation must have the following characteristics:

Temperature: 55°C

Dynamic Pressure :

- 2 ÷ 4 bar (200÷400 kPa);

-for machines with incorporated Water-softener:

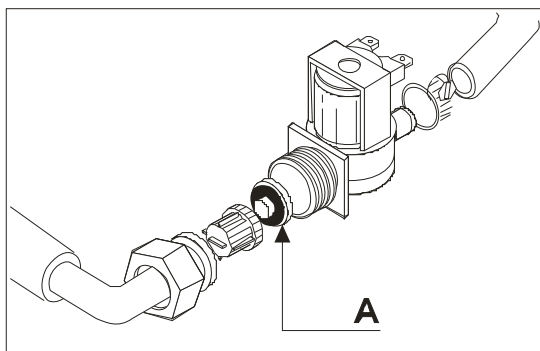
Dynamic Pressure: 3 ÷ 4 bar (300 ÷ 400 kPa).

Temperature: 10÷12 °C.

ATTENTION!: do NOT connect to softened water.

WARNING!

If the water pressure is higher than 4 bar, fit the pressure reducer "A" supplied into the solenoid valve as shown in the drawing.



If the dynamic pressure is lower than specified on the data plate of the machine, it is advisable to install a Booster Pump.

Hardness: between 7,2 and 12,5 °French.

If the hardness values are higher than those mentioned above, it is advisable to install a water-softener.

In case of higher hardnesses it is required the softener; failing this device, it will be necessary to often proceed with the operation of scaling and increase the concentration of the detergent.

It is recommended to use only softeners to "Ion Exchange" or "Reverse Osmosis". The

procedure based on magnetic field or electromagnetic radiation are completely useless for the specific use in dishwashers.

DUCT: Provide to bring close to the machine a water duct with the above characteristics, terminating with a gate valve and with a male thread of ¾" Gas.

WORKS TEMPERATURES

Water temperature 55°÷60°C

Rinse temperature 80°÷85°C

n.b.: To help a correct working of the thermocontrol system, do NOT adjust the thermostat during the washing cycle.

DO NOT TAMPER WITH THE THERMOSTAT CALIBRATION

WATER DRAIN

According to the dimensions of the drawing; water drain and feeding pipe should have the same diameter as the water inlet of the machine.

It must be furnished with a siphon and have a right slope.

The machine is provided with a flexible pipe for the connection with the water-work. Make sure there are no throttlings along the pipe.

Carefully comply with any national or regional regulations in force.

DETERGENT DISPENSER, RINSE-AID DISPENSER AND LIMESCALE :

PROGRAMMING

For programming see section CONFIGURATION USER TECHNICAL-PROGRAMMING The control acts on the percentage values from 0% to 100% with the logic time/pause according to the values shown in the following table:

0% always OFF
10% 0,5s ON and 4,5s OFF
20% 1,0s ON and 4,0s OFF
30% 1,5s ON and 3,5s OFF
40% 2,0s ON and 3,0s OFF
50% 2,5s ON and 2,5s OFF
60% 3,0s ON and 2,0s OFF
70% 3,5s ON and 1,5s OFF
80% 4,0s ON and 1,0s OFF...
90% 4,5s ON and 0,5s OFF
100% always ON

Example :

Adjusting the rinse aid dispenser with 40% rinsing time 20 s

The operating times will be:
2s ON + 3s OFF + 2s ON + 3s OFF + 2s ON + 3s OFF + 2s ON + 3s OFF
For a total of 20 seconds of rinsing.

Set the percentage based on the capacity of the pump installed and rinsing time selected, taking into account that the pump is running simultaneously with the step of rinsing.

If there is the detergent pump installed by Lamber, data are as follows:

Capacity: 1cc/SEC=3,6 Lit/H
Voltage: 230/50-60Hz

DETERGENT DISPENSER

INSTALLATION AND CONNECTION OF THE DETERGENT DISPENSER



CAUTION: Observe the safety notes and dosage data for the use of chemicals. During the use of the chemical substance wear protective clothing, gloves and glasses. Do not mix different cleaning products.

If the machine is not fitted as standard, must be accompanied by detergent dispensers of the suppliers of those products.

Entering **DETERGENT WASHING LIQUID** must be carried out using the hole provided on the front of the washing tank (see photo below)



The mean concentration of the liquid detergent should be 2-4 g/liter. In any case it is however necessary that the detergent manufacturer regulates in an appropriate dosage depending on the characteristics of the installation.

For the installation of the dispenser inside the machine, you can use the free support next to the rinse dispenser installed as standard on the dishwasher (see next photo)



The suction tube of liquid detergent has to be passed through the opening spot on the right side of the machine (see next photo)



The choice of a suitable cleansing agent is an essential condition if you want to obtain extremely good washing results as regards hygienic results. That's why it's important to consider some points. First of all only highly alkaline and chlorine-active antifoam products, especially made for industrial dish-washing

machines, must be used and they must be produced by well-known reliable Firms. Mean concentration of the cleansing agents in powder must be 1,5÷2,5 g/lit. Mean concentration of liquid cleansing agents must be 2÷4 g/lit.

In order to avoid scales and corrosions, put cleansing agent above water level on the nearest area of the sucking pump filter, in this way it will immediately dilute and will not deposit on the tank bottom.

ELECTRICAL CONNECTION OF DETERGENT DISPENSER

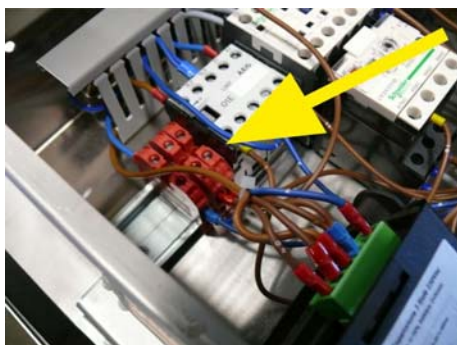


WARNING: Danger to life due to live components!

During all electrical operations, disconnect the machine from the network and verify the absence of power.

The machine and its accessories must be connected in accordance with local regulation, by a company that is specialized in electrical installation authorized by the competent authorities.

For the electrical connection of the dispenser, refer to the red terminals inside the electrical cabinet (see photo below) and refer to the wiring diagram sheet 3.



To prevent damages to the electrical components of the machine is mandatory the use of these terminals to avoid flying connections in other parts of the installation (valves, etc.)

N.B. For the cables using the cable gland provided in the electrical control box and identified with a label.

DESCALING CYCLE :

For programming, see section CONFIGURATION USER TECHNICAL-PROGRAMMING

The descaling cycle has a duration of about 35 minutes and takes place according to the steps listed below:

1. pump dispenser rinsing and descaling until the tank is full
2. heating phase until the boiler temperature >50°C and tank > 45 °C
3. wash pumps for 1 minute
4. 1 minute rest
5. wash pump for 1 minute
6. rinsing pump and limestone dosing for 15 seconds
7. 1 minute rest
8. wash pump for 1 minute
9. 1 minute rest
10. wash pump for 1 minute
11. rinsing pump and limestone dosing for 15 seconds
12. 1 minute rest
13. wash pump for 1 minute
14. 1 minute rest
15. washing pump for 1 minute
16. rinsing pump for 15 seconds
17. heating boiler off
18. 1 minute rest
19. washing pump for 1 minute
20. 1 minute rest
21. washing pump for 1 minute
22. rinsing pumps for 15 seconds
23. 1 minute rest
24. drain pump until the tank is empty and for another 2 minutes
25. rinsing pump up to full tank
26. washing pump for 5 seconds
27. drain pump until the tank is empty and for another 2 minutes

List ALARMS!

Alarm: A3-TEMP.SENSOR

This message indicates that the probe temperature thermostats of hot water heater is broken or short-circuited!
Replace the probe.

Alarm: A2-HIGH TEMP.

This message indicates that the temperature in the boiler is greater than 105°C.
Check for the presence of water in the boiler or the operation of the heating element!

DETERGENT REPLACEMENT AND CLEANING OF THE DETERGENT PUMP HOSES

Guidelines to be followed when replacing detergent :

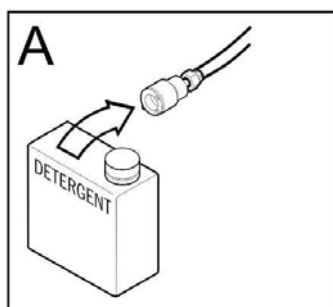
- If you leave the machine without detergent, crystallization arises due to the formation of air bubbles
 - Set up again detergent pump hose anytime you use a new detergent
 - The whole system consists of a container, dosage hoses and detergent pump hoses and must be cleaned before using a new detergent.
 - Call on your authorized technical assistance to fulfil the necessary operations to obtain a good cleaning result.
- You are recommended to proceed with the cleaning of the dosage hoses and the detergent pump with water once a month.

Failure to comply with these guidelines will render this guarantee invalid. Lamber disclaims any liability for consequential damage on the product.

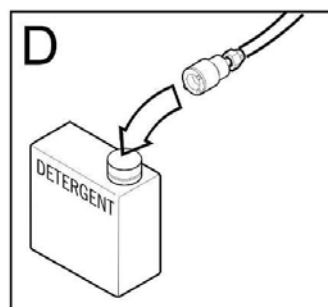
You can clean yourself the dosage hoses and the detergent pump with water.

Guidelines:

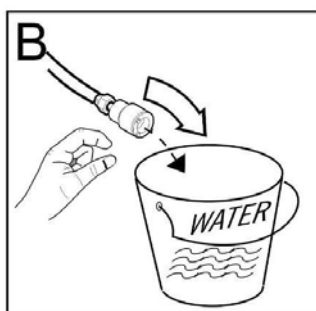
- A - Disconnect the suction hose from the detergent can.




- D – Once self-cleaning is finished, connect the suction hose to the detergent can.



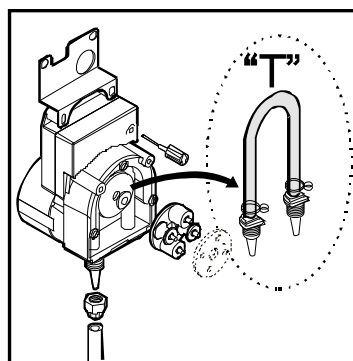
- B - Connect the suction hose to a new water recipient.



- C - Switch the **Self-cleaning cycle** on (see paragraph page 22)

 **WARNING:** Respect security and chemical dosage guidelines. When using chemical products you must wear personal protection equipment, gloves and protection glasses. Do not mix different detergents together.

Attention !
Replace **every 6 months** the peristaltic pumps suction pipe !



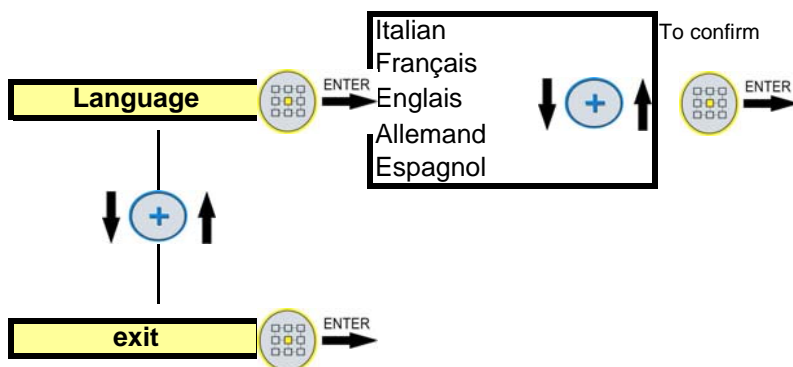
KEYBOARD INTERACTIVE MEMBRANE

Machine OFF	ON/OFF push-button "A" for 1 second when the machine is ON (with the machine empty the display will show off after 10" seconds)	(logo LAMBER appears) (just with machine full)
Machine ON	ON/OFF push-button "A" for 1 second when the machine is in OFF with the machine empty the display will indicate "door open" or "closed door"	(Temperature displayed) (just with machine full)
Preset	Enter Key "D" for 15 seconds while the machine is OFF	(RESET to factory defaults)
Select the washing program	Key "+" while the machine is ON	
Select the washing program	Key "-" while the machine is ON	
START Washing Program	Key "B" while the machine is ON	

USER SET-UP

Button "+" for 5 seconds while the machine is in OFF

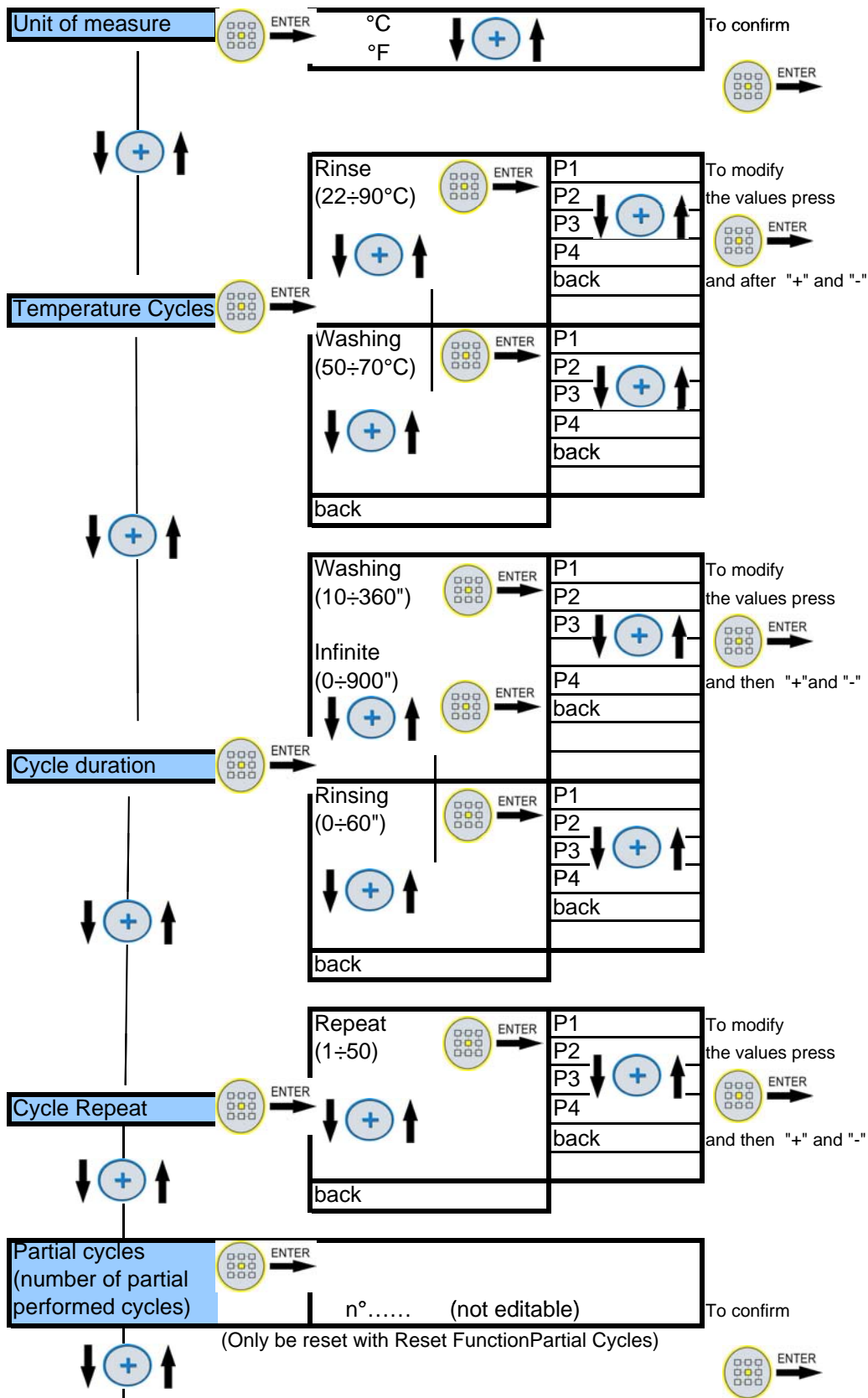
N.B. At the end of the programming operations the machine turns off. Press push-button "A" for 1 second to turn the machine on.



USER TECHNICAL-CONFIGURATION PROGRAMMING

Push-button "+" and push-button enter "D" for 5 second with the machine FF and hood open

cod. PIN 1000



To view the temperatures during washing cycle press push-button

↓ (+) ↑

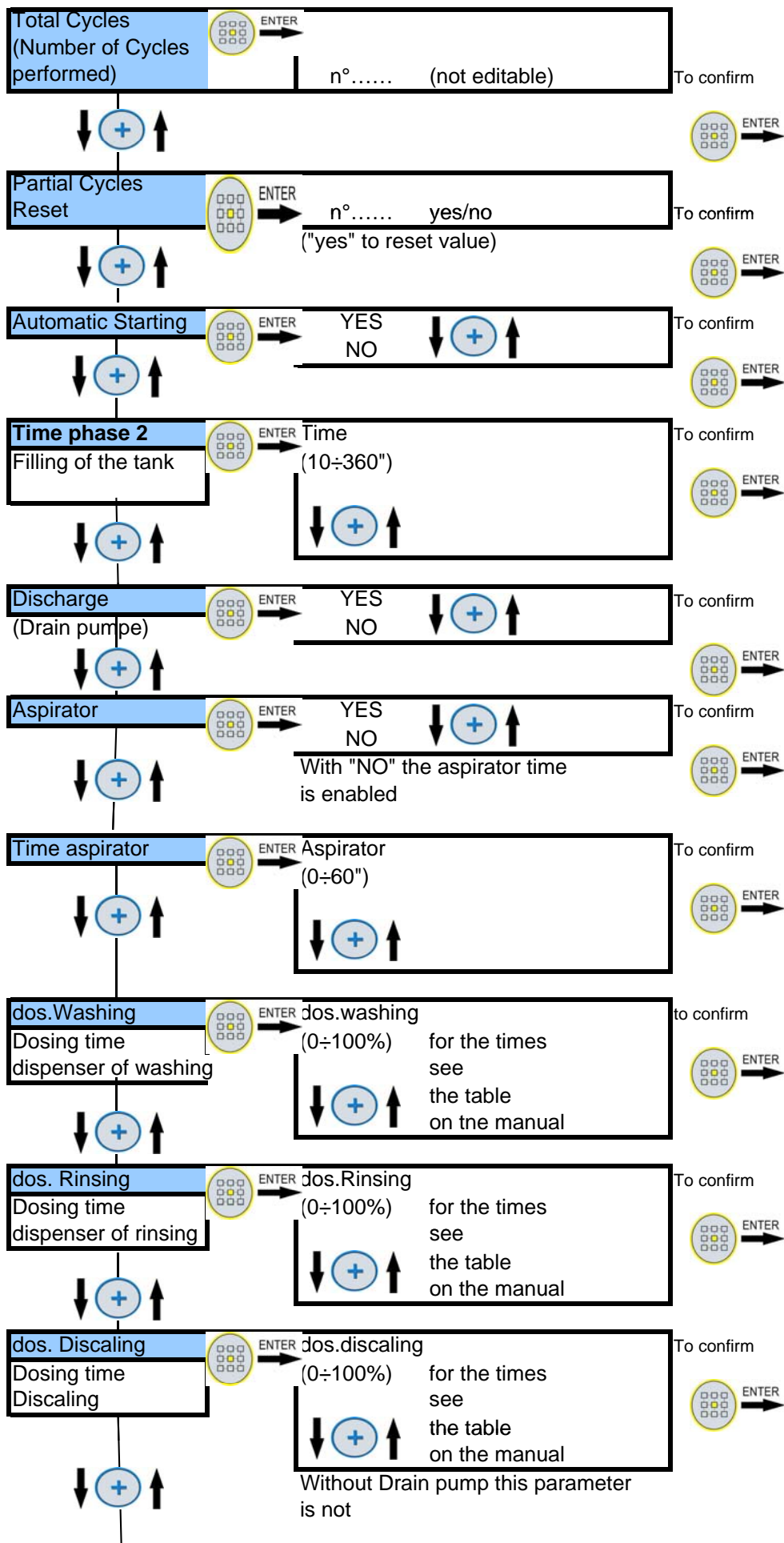
After 3 seconds came back standard viewing

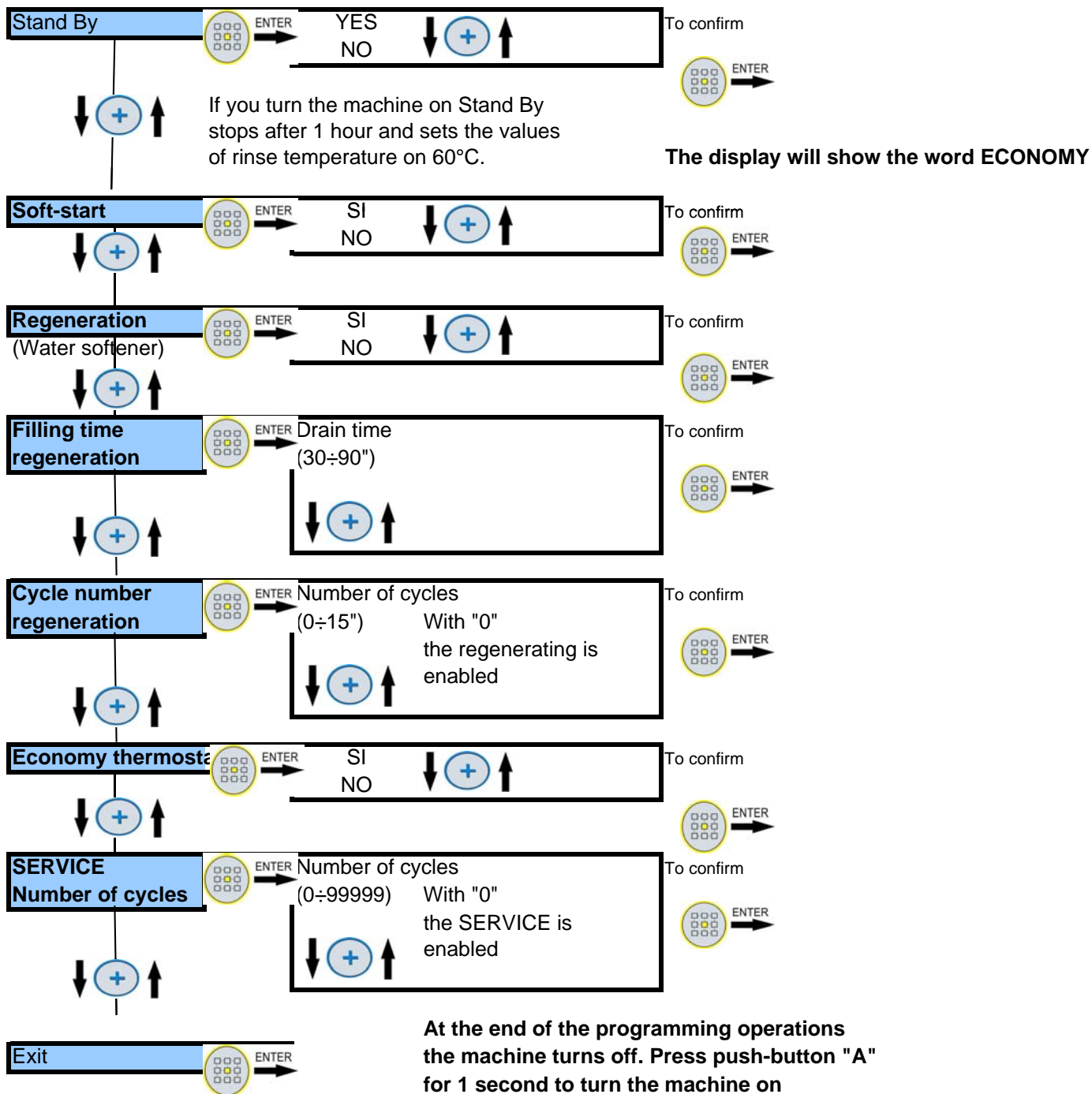
For temperatures fixed for the entire cycle of washing press push-I

↓ (+) ↑

for 3 seconds





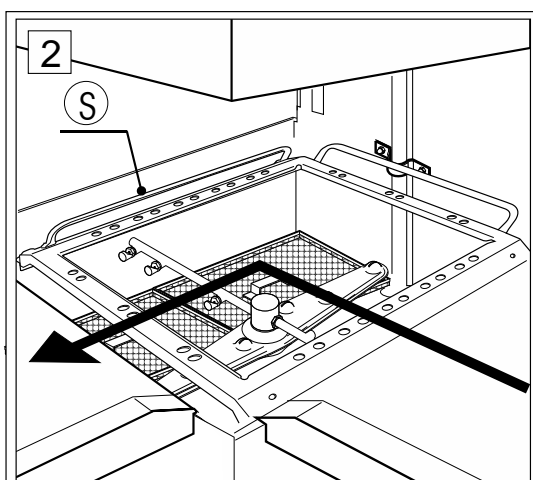
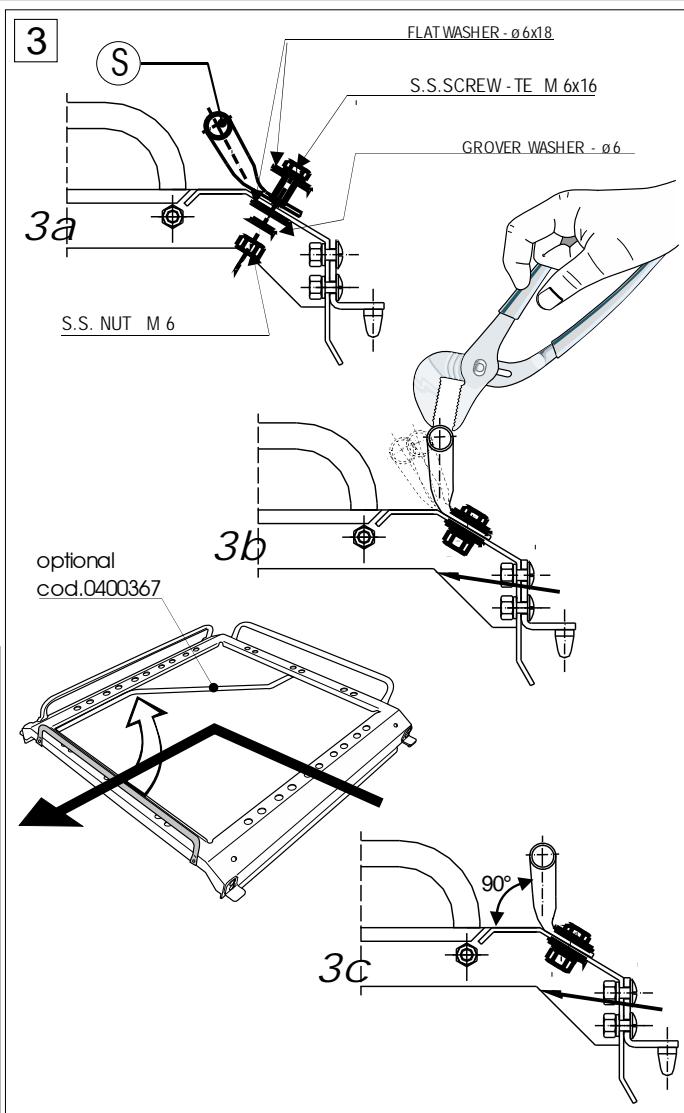
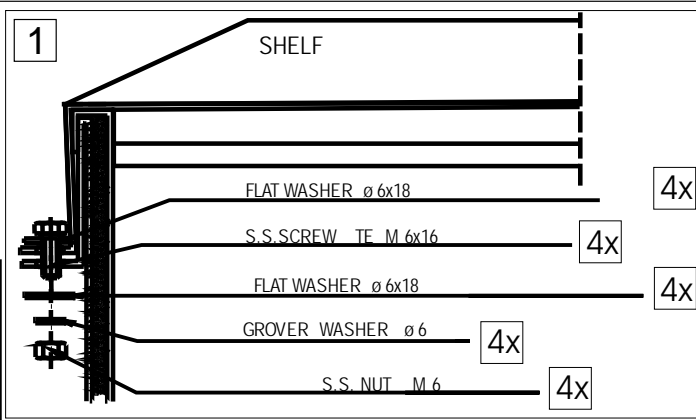


TABLES FITTING PLAN

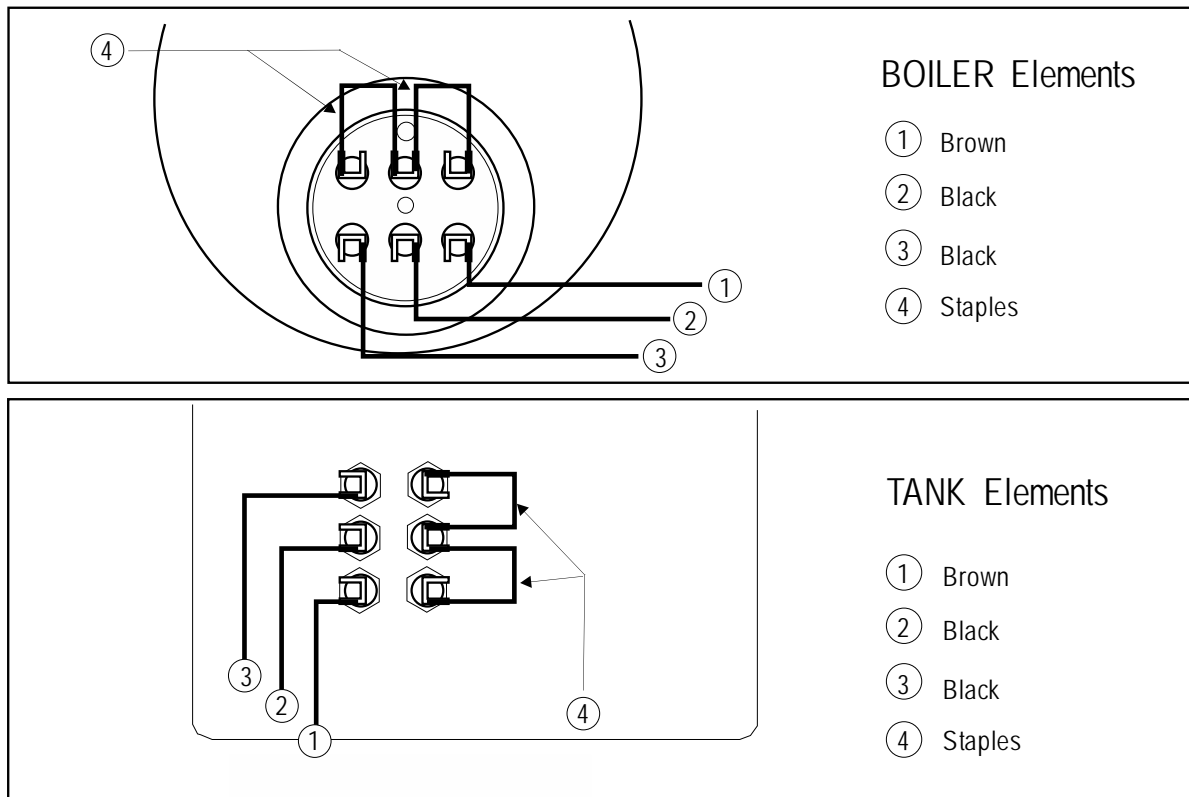
To fix the side tables please see drawing above.

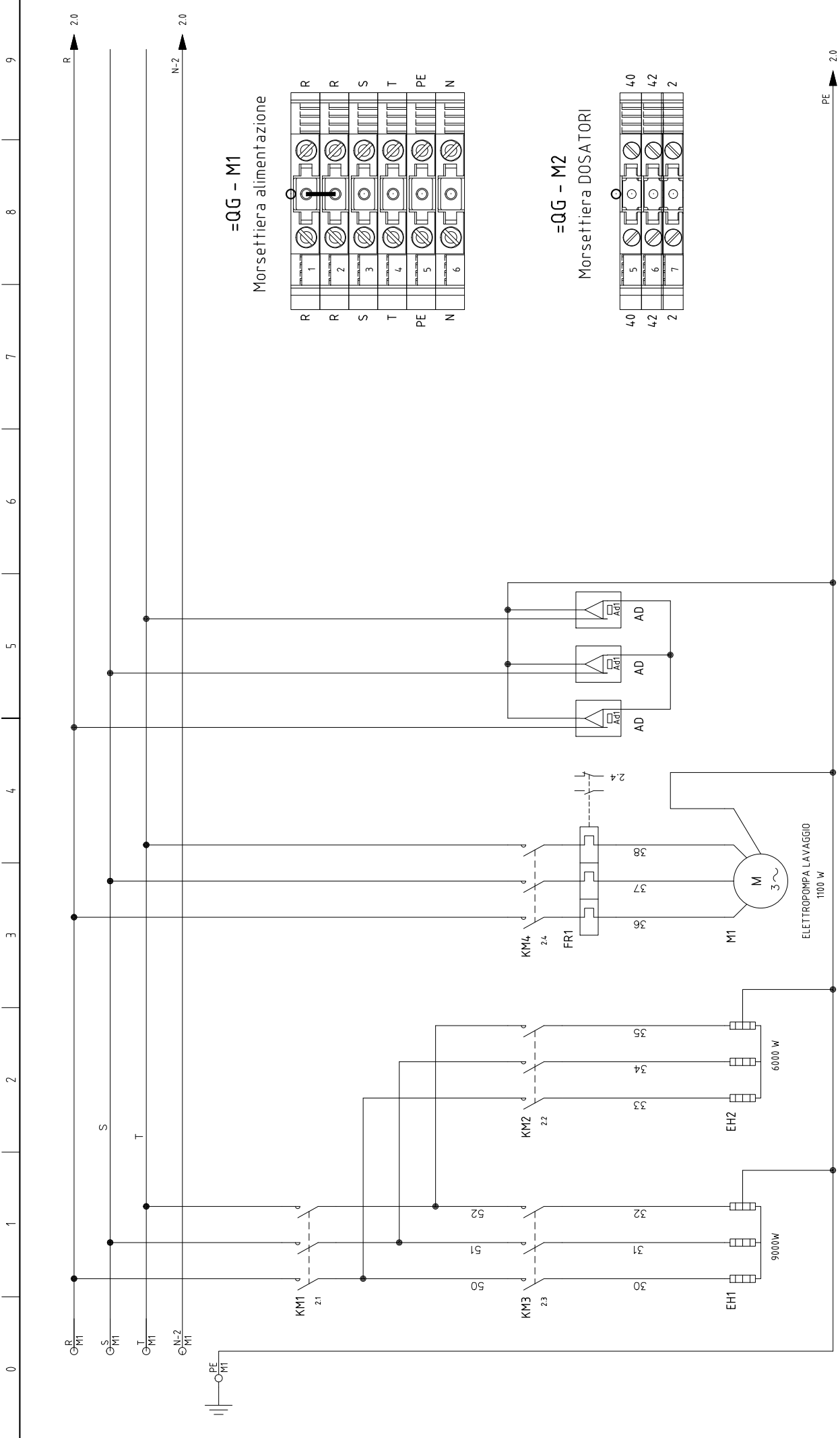
Corner version

With corner versions unscrew the basket lock "S" and screw it in the position by drawing "2", fixing it to the existing holes (see drawing "3A"). Then bend the support by using the apposite key, as shown in drawing "3B", up to the position indicated in "3C".



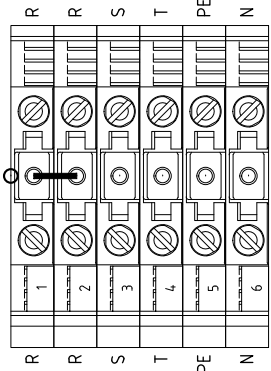
CONNECTIONS SCHEME





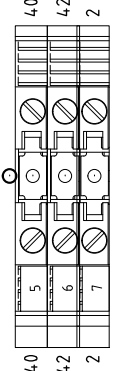
=QG - M1

Morsettiera alimentazione



=QG - M2

Morsettiera D0SAT0RI



Lavastoviglie 01524L-L24-L25-L305
Dishwasher / Lave-Vaisselle
CIRCUITO DI POTENZA
CIRCUIT PUISSANCE

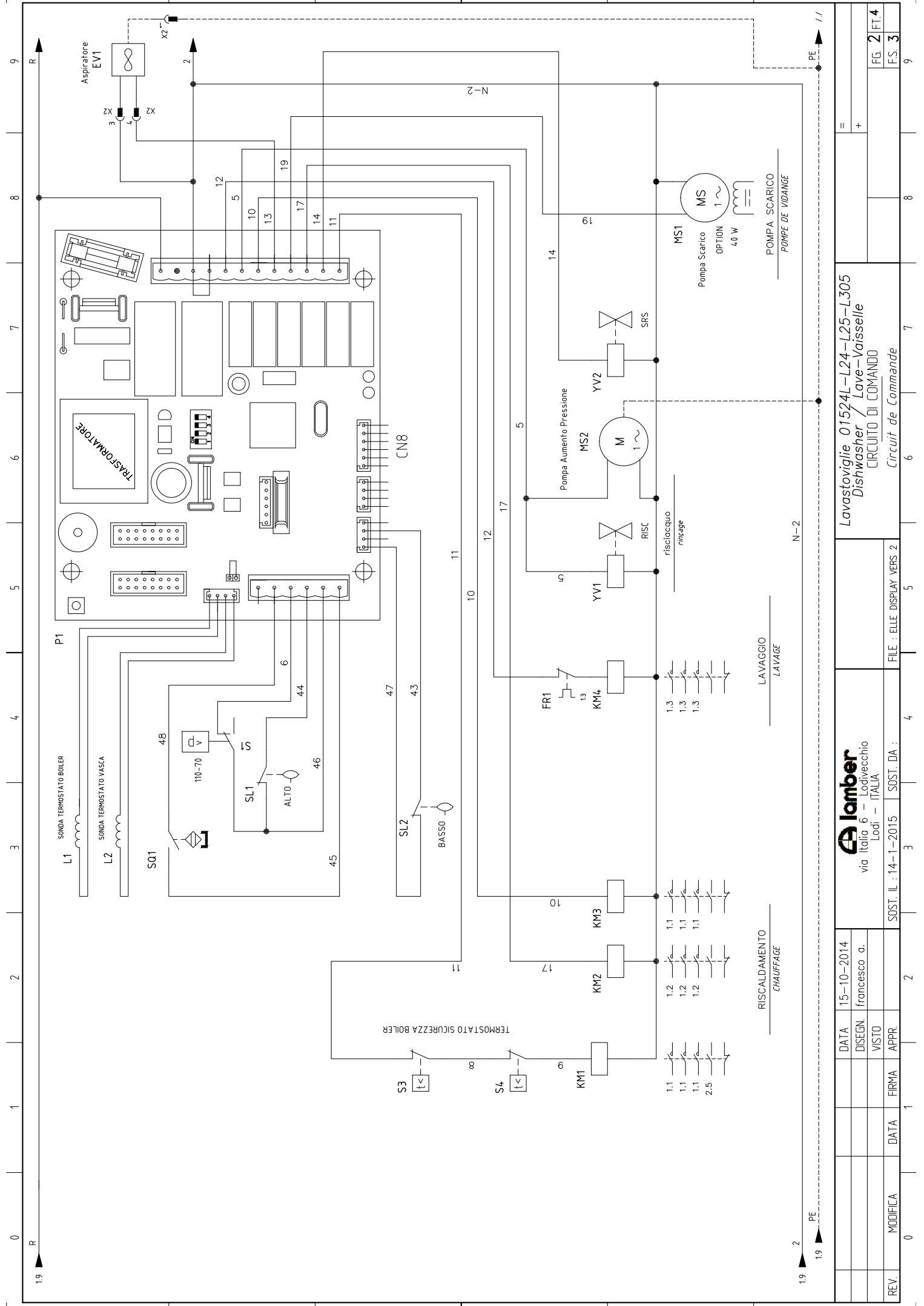
lamber
via Italia 6 - Lodivecchio
Lodi - ITALIA

REV.	MODIFICA	DATA	FIRMA	APPR.	VISTO	DISEGN.	DATA
							15-10-2014
							francesco a.

FILE : ELE DISPLAY VERS 2

SOST. IL : 14-1-2015 SOST. DA :

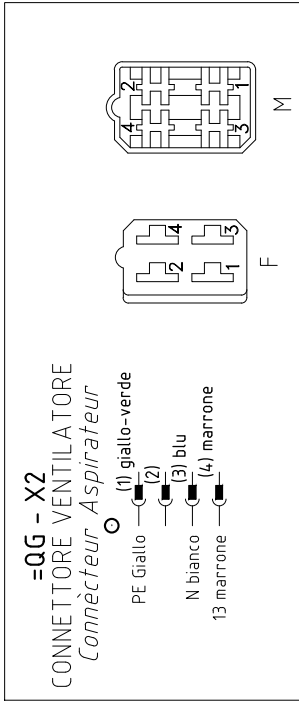
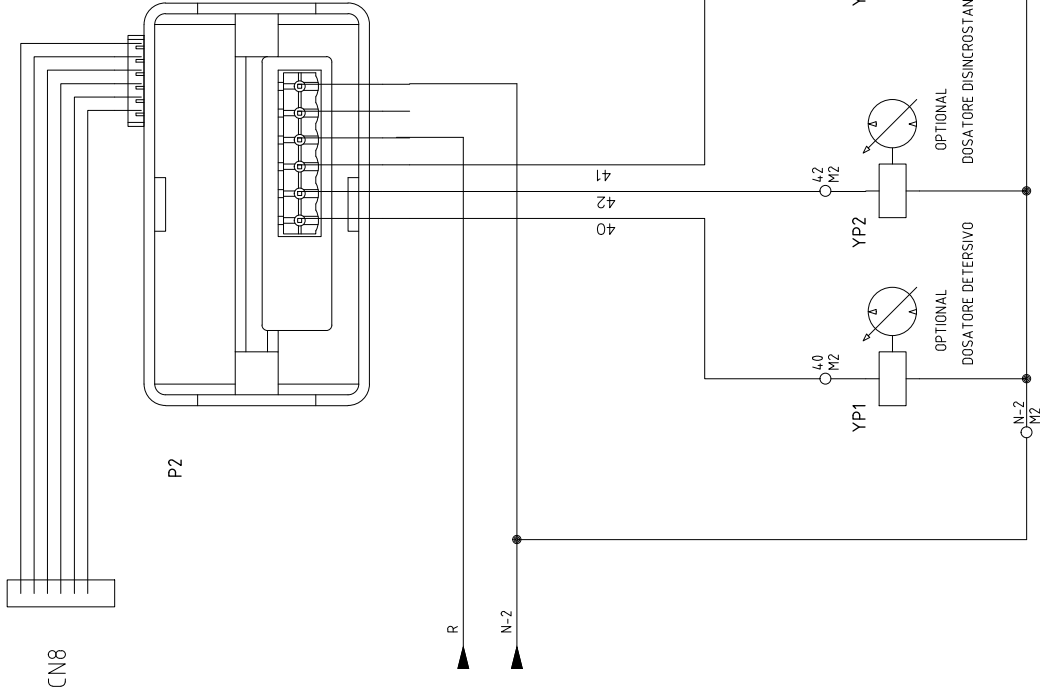
SOST. IL : 14-1-2015 SOST. DA :



Lamber		via Italia 6 - Lodivecchio Lodi - ITALIA		SOST. IL : 14-1-2015		SOST. DA :		FILE : ELLE DISPLAY VERS 2		Lavastoviglie 01524L-L24-L25-L305 Dishwasher / Lave-Vaisselle		CIRCUITO DI COMANDO		Circuit de Commande		FG 2 FT. 4		F.S. 3	
DATA	15-10-2014	DESIGN.	francesco a.	VISTO		FIRMA		DATA		REV.	MODIFICA								

Nome/Item

Nome/Item	Funzione/Function [1]	Codice Item (It)	Descrizione/Description	Q.ta/O.ty	Quadro/Board
AD	Filtro antidi disturbo	0300900	Filtro antidi disturbo	3	=QG
EH1	RESISTENZA BOILER	0300299	Resistenza su flangia 9000W 230V/400V	1	=BM
EH2	RESISTENZA VASCA	0303051	Resistenza diritta monofase att. vite 2000W 230V	3	=BM
EV1	Aspiratore	0300272	Ventilatore assiale L305 230V 4P 73W 1350r/m	1	=BM
FR1	Protezione Elettropompa lavaggio	0300199	RELE' TERMICO 2,6-3,7A	1	=QG
KM1	Contattore Sicurezza Boiler	0300058	CONTATTORE 230/50-60Hz 6-20A	1	=QG
KM2	Contattore Resistenza vasca	0300058	CONTATTORE 230/50-60Hz 6-20A	1	=QG
KM3	Contattore resistenza boiler	0300050	CONTATTORE 9-25A 230VAC 50/60Hz	1	=QG
KM4	Contattore Pompa Lavaggio	0300058	CONTATTORE 230/50-60Hz 6-20A	1	=QG
L1	SONDA TERMOSTATO BOILER	0302100	Sonda Temperature GC	1	=BM
L2	SONDA TERMOSTATO VASCA	0302100	Sonda Temperature GC	1	=BM
M1	ELETTROPOMPA LAVAGGIO	0301254	Elettropompa 1100W DW0150 230/400/50Hz	1	=BM
MS1	Pompa Scarico	0300068	Pompa scarico 30W 220 240/50Hz	1	=BM
MS2	Pompa Aumento Pressione	0300362	Pompa aumento pressione PPL 45 DX 300W 230-50Hz	1	=BM
P1	Scheda Comandi	0300842	Scheda 8 relé effe-elle display	1	=BM
P2	Scheda Dosatori	0300844	Scheda espansione 3 relé effe-elle	1	=BM
S1	Pressostato livello vasca lavaggio	0301501	Pressostato 110-70	1	=QG
S3	TERMOSTATO SICUREZZA BOILER	0300302	Termostato riarmo 105°C	1	=BM
S4	Termostato sicurezza vasca	0300304	Termostato riarmo a contatto 85° INC	1	=BM
SL1	Livello max Break Tank SRS	0300184	Asta 2 livelli a galleggiante	1	=BM
SL2	Livello Min Break Tank SRS				
SQ1	Micro sportello	0300138	Microinterruttore magnetico	1	=BM
YP1	DOSATORE DETERGIVO	0500060	Dosatore peristaltico tempo-pausa	1	=QG
YP2	DOSATORE DISINCROSTANTE	0500062	Dosatore peristaltico INJ 230-240V 3,5W	1	=QG
YP3	DOSATORE ADDITIVO RISCIAQUO	0500068	Dosatore per- SILICONE tempo-pausa 230V	1	=QG
YV1	ELETTROVALVOLA RISCIAQUO	0300025	Elettrovalvola semplice NC 230/50	1	=BM
YV2	Elettrovalvola Brak Tank SRS	0300025	Elettrovalvola semplice NC 230/50	1	=BM



Alamber
via Italia 6 - Lodivecchio
Lodi - ITALIA

Lavastoviglie 01524L-L24-L25-L305
Dishwasher / Lave-Vaisselle
SCHEDA DOSATORI / LEGENDA COMPONENTI

DATA 15-10-2014
DISEGN. francesco a.
VISTO
FIRMA APPR.

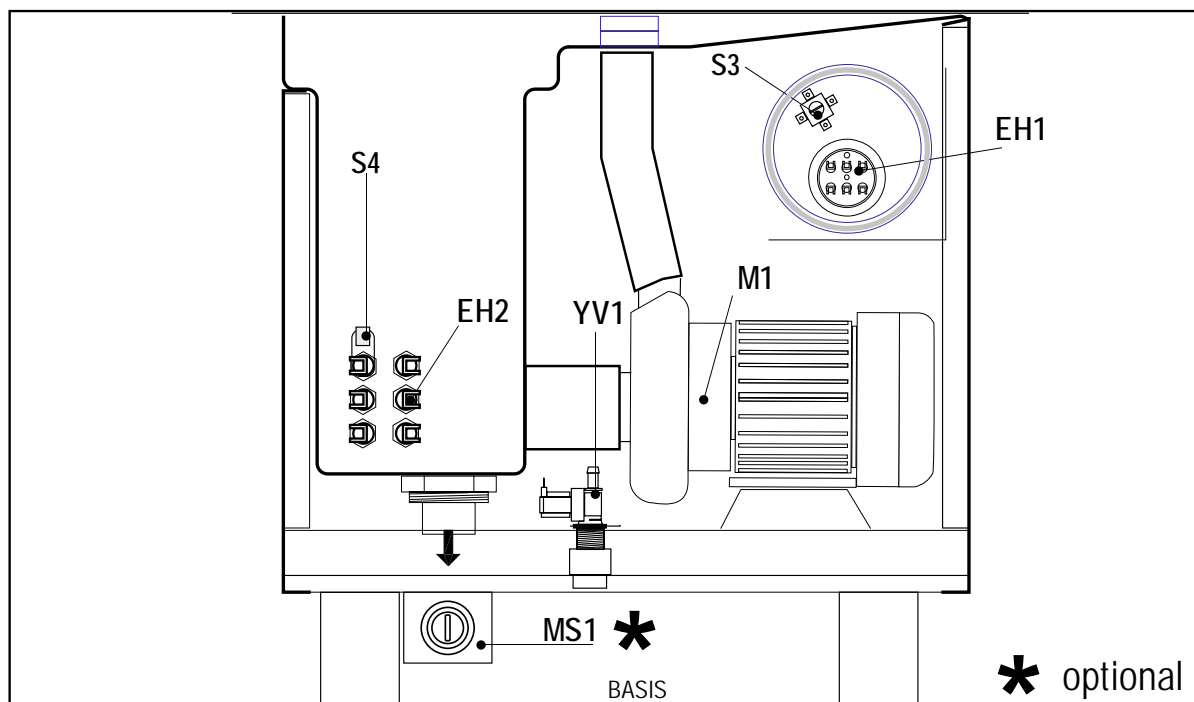
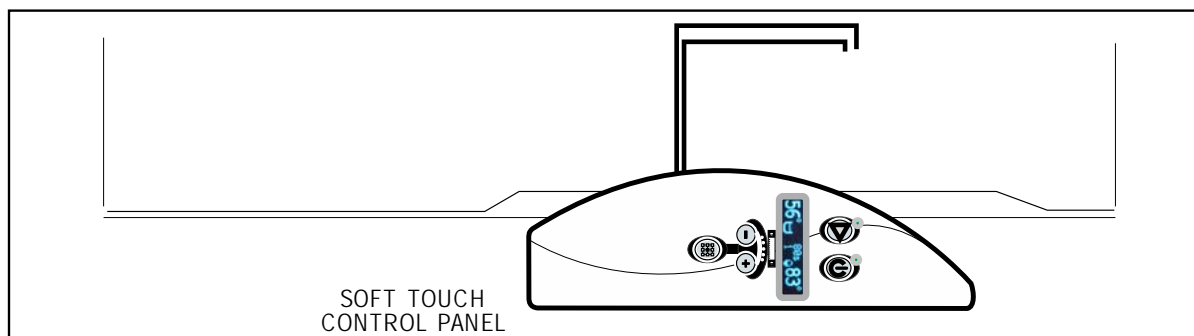
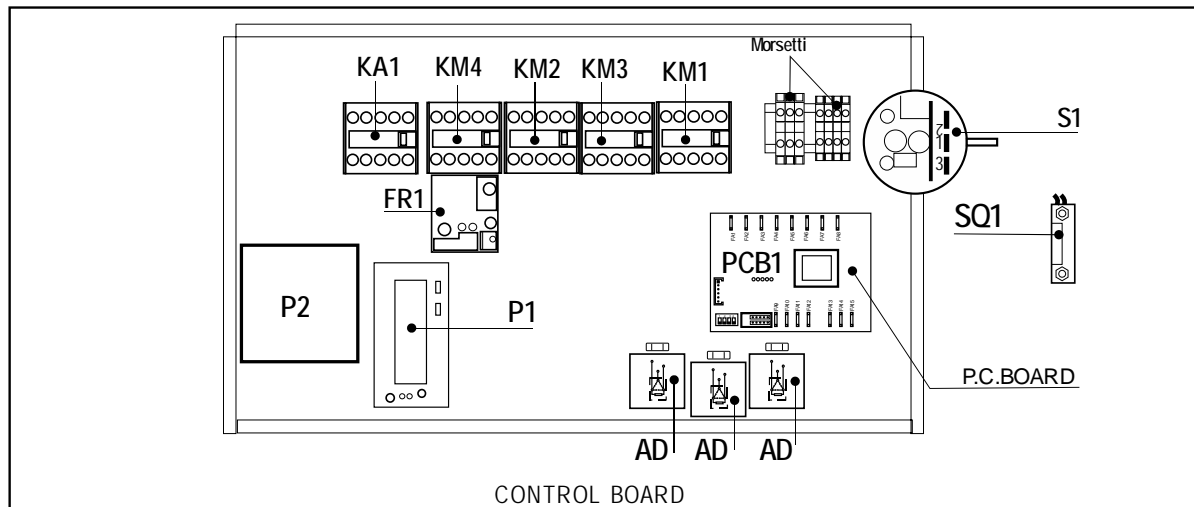
REV. MODIFICA DATA

SOST. IL : 14-1-2015 SOST. DA :

FILE : ELE. DISPLAY VERS 2

FG 3 FT. 4
FS. 4

COMPONENTS



Mod.	015/24L	L24-ek-plus	L25-ek	L305-CV	
GB					
SPECIFICATIONS					
DIMENSIONS l x w x h	670X765X1460	670X765X1460	670X765X1450	670X765X1700	mm
WASHING CAPACITY dishes/H	1080-540-360 (1440)	1080-540-360 (1440)	1080-540-360 (1440)	1080-540-360 (1440)	Nr.
baskets/H	60-30-20	60-30-20	60-30-20	60-30-20	Nr.
WASH CYCLE	60"-120"-180"	60"-120"-180"	60"-120"-180"	60"-120"-180"	Sec.
BASKET SIZE	50 x 50	50 x 50	50 x 50	50 x 50	cm
DISHES PER BASKETS	12÷18 (24)	12÷18 (24)	12÷18 (24)	12÷18 (24)	Nr.
WORK HEIGHT	890	890	890	890	mm
PLATES CLEARANCE	415	415	415	415	mm
VOLTAGE	400 V3N~50Hz	400 V3N~50Hz	400 V3N~50Hz	400 V3N~50Hz	V
ELECTRIC PUMP	1100	1100	1100	1100	W
RINSING ELECTRIC PUMP	ot pion	option	option	385	
WASH TANK ELEMENTS	3000	6000	6000	6000	W
RINSE TANK ELEMENTS	9000	9000	9000	9000	W
TOTAL RATING	10100	10100	10100	10100	W
MAX CURRENT INTENSITY	16	16	16	16	A
TANK CAPACITY	34	34	34	34	Lt
BOILER CAPACITY	8	8	8	8	Lt
RINSE AID DISPENSER	YES	YES	YES	YES	
WASH AID DISPENSER	OPTION	YES	OPTION	OPTION	
SCALE REMOVER PUMP	OPTION	YES	OPTION	OPTION	
DRAIN PUMP	OPTION	30 W	OPTION	OPTION	W
WATER CONNECTION	45 ÷ 55	45 ÷ 55	45 ÷ 55	10 ÷ 12	°C
PUMP DELIVERY	480	480	480	480	l./min
WATER CONSUMPTION PER CYCLE	2.80	2.80	2.80	2.80	l
WATER CONSUMPTION PER HOUR	56-84-168	56-84-168	56-84-168	58-89-117	l
WATER PRESSURE	2 ÷ 4	2 ÷ 4	2 ÷ 4	2 ÷ 4	Bar
WATER HARDNESS	5 ÷ 10	5 ÷ 10	5 ÷ 10	5 ÷ 10	°F
RINSING WATER TEMPERATURE	80 ÷ 90	80 ÷ 90	80 ÷ 90	80 ÷ 90	°C
WATER INLET	3/4"	3/4"	3/4"	3/4"	"G
WATER OUTLET	32 mm ÷ 1"1/4	32 mm ÷ 1"1/4	32 mm ÷ 1"1/4	32 mm ÷ 1"1/4	"G
NET WEIGHT	133	133	145	178	kg
GROSS WEIGHT	151	151	164	200	kg
PACKING DIMENSIONS	800x930x1610	800x930x1610	800x930x1610	830x930xh1870	mm
NOISE	63,5	63,5	59,5	<67	dB(A)